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(54) Title: LIGAND-PSEUDORECEPTOR SYSTEM FOR GENERATION OF ADENOVIRAL VECTORS WITH ALTERED
TROPISM



EGFR signal
peptide

Transmembrane and cytoplasmic
domain of EGFR

can interact with said non-native peptide, said virus being incapable of infecting a cell through a CAR-dependent entry pathway. There is also provided a modified cell line for replicating the modified virus. These two together can be advantageously put into practice in the field of medicine and more particularly in gene therapy.

(57) Abstract: In accordance with the present invention, there is provided a modified virus ablated of its natural receptors interactions with an unmodified or non-naturally occurring cell, said modified virus comprising a non-native polypeptide, said modified virus having an altered tropism conferred by said non-native peptide, and replicating only in cells that